

ATTENTION:
 GENERAL MANAGER
 PARTS MANAGER
 CLAIMS PERSONNEL
 SERVICE MANAGER

IMPORTANT - All Service Personnel Should Read and Initial in the boxes provided, right.

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QUALITY DRIVEN® SERVICE

SERVICE BULLETIN

APPLICABILITY: 2020-22MY Legacy / Outback
 2012-22MY Impreza
 2012-22MY Crosstrek
 2011-22MY Forester
 2013-21MY BRZ
 2019-21MY Ascent

NUMBER: 02-188-21

DATE: 10/07/21

SUBJECT: Timing Chain / Camshaft Sprocket Installation-Procedure Information

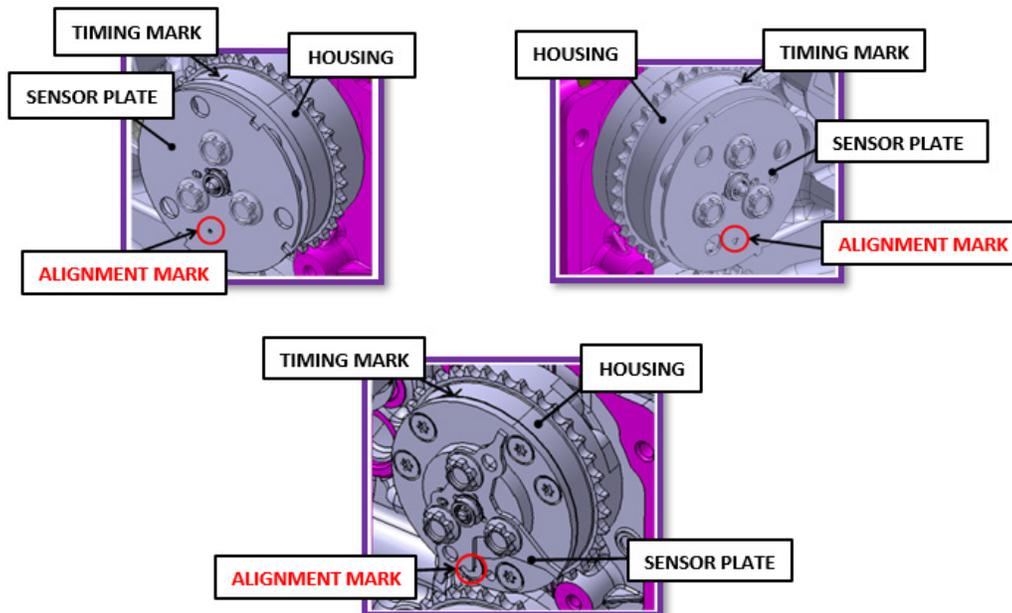
INTRODUCTION:

This Service Information Bulletin announces an additional service procedure for timing chain and / or cam sprocket replacement on FA and FB type engines. This information addresses the rare situation in which the lock pin inside the cam sprocket not being in the “lock” position when the engine was shut off prior to servicing. This condition can occur under normal engine operation.

SERVICE PROCEDURE / INFORMATION:

REMINDER: Customer satisfaction and retention starts with performing quality repairs.

1) Sprocket Components / Descriptions of Markings:



CAUTION: VEHICLE SERVICING PERFORMED BY UNTRAINED PERSONS COULD RESULT IN SERIOUS INJURY TO THOSE PERSONS OR TO OTHERS.

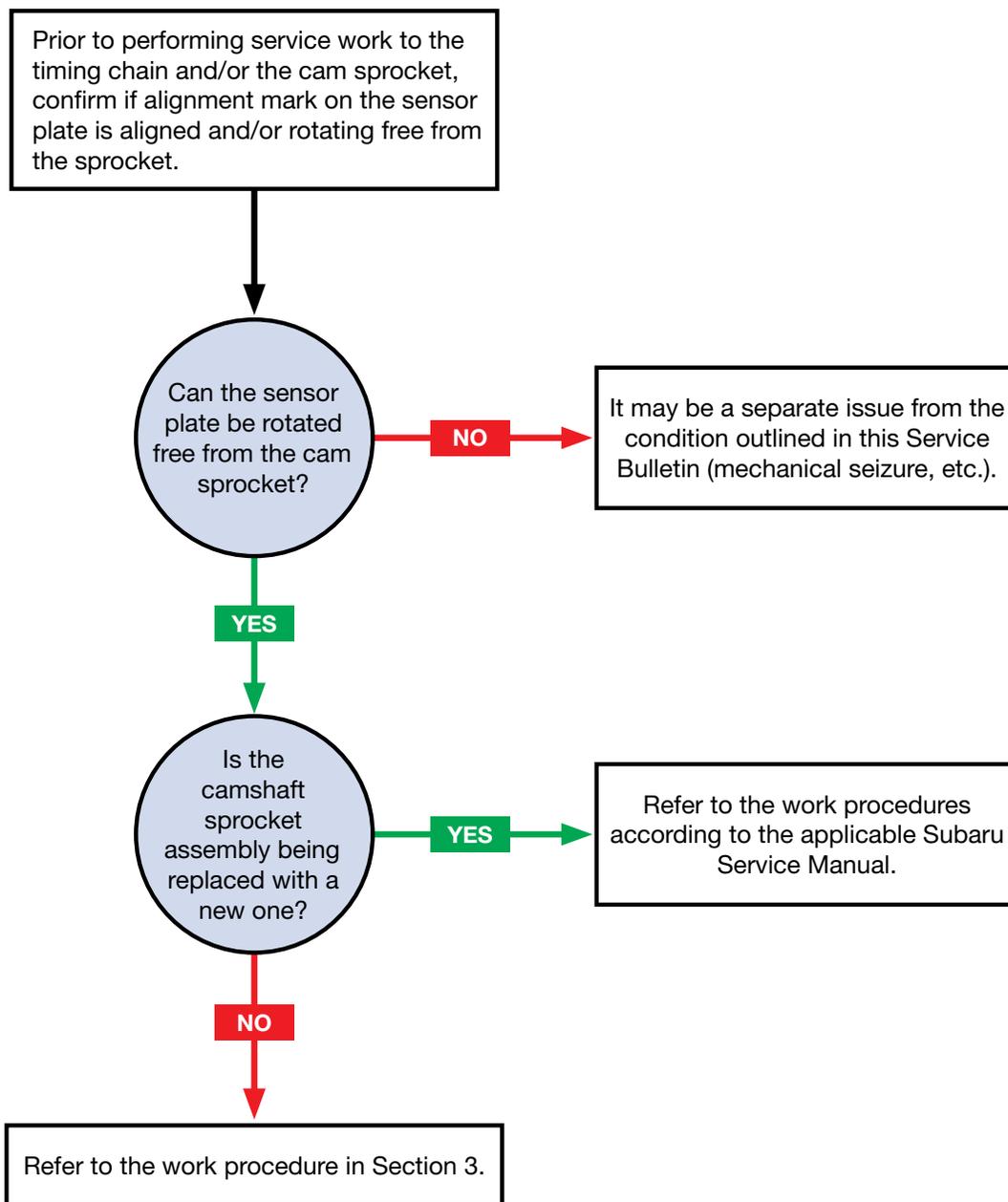
Subaru Service Bulletins are intended for use by professional technicians ONLY. They are written to inform those technicians of conditions that may occur in some vehicles, or to provide information that could assist in the proper servicing of the vehicle. Properly trained technicians have the equipment, tools, safety instructions, and know-how to do the job correctly and safely. If a condition is described, DO NOT assume that this Service Bulletin applies to your vehicle, or that your vehicle will have that condition.

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2) Work Outline:



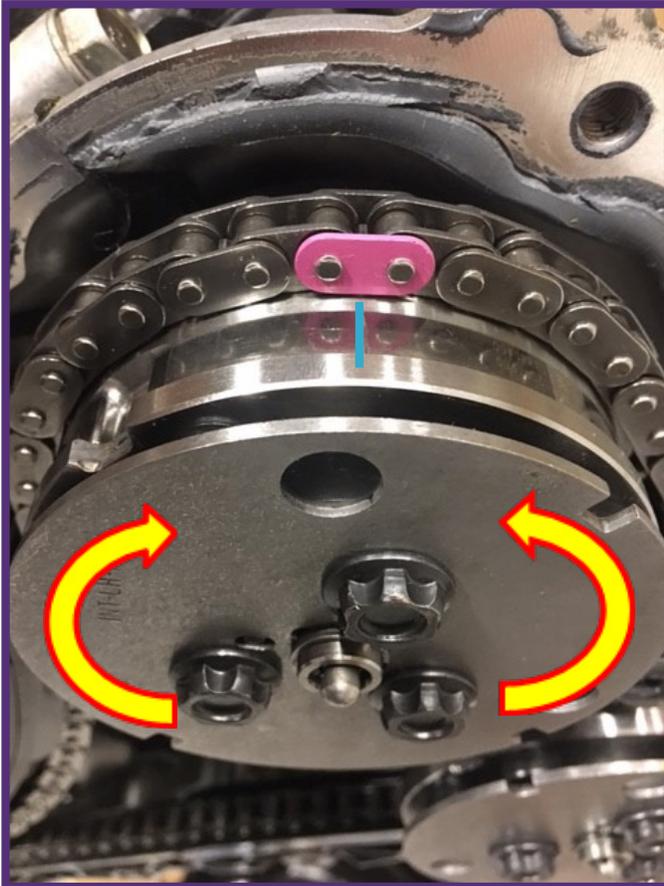
3) Work Procedure:

When setting the timing on an engine that has the sensor plate moving free of the camshaft sprocket housing, use the following procedure below in conjunction with the information provided in the applicable service manual. This symptom does not affect the engine operation next time the cam mechanism is hydraulically activated. The following work procedure is to be used for **EXAMPLE** purposes. In this example, a sensor plate is found to be “free moving” from the left intake cam sprocket housing on a FA20 type engine.

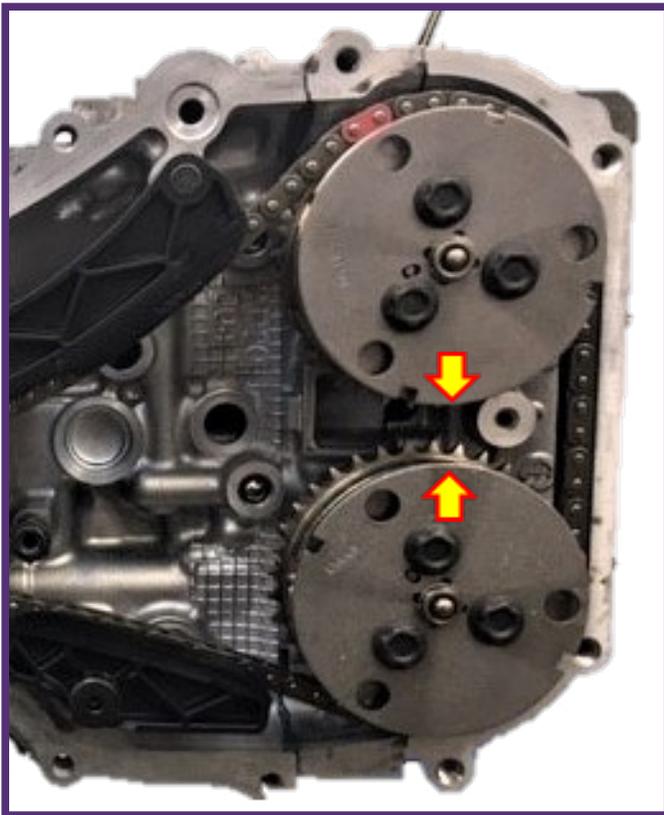
Refer to the applicable Service Manual: Engine > Timing Chain Assembly

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EXAMPLE: (FA20 Left Intake Cam Sprocket)

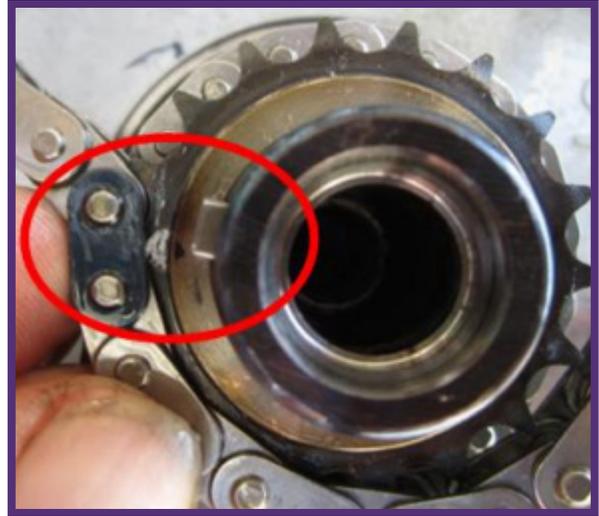
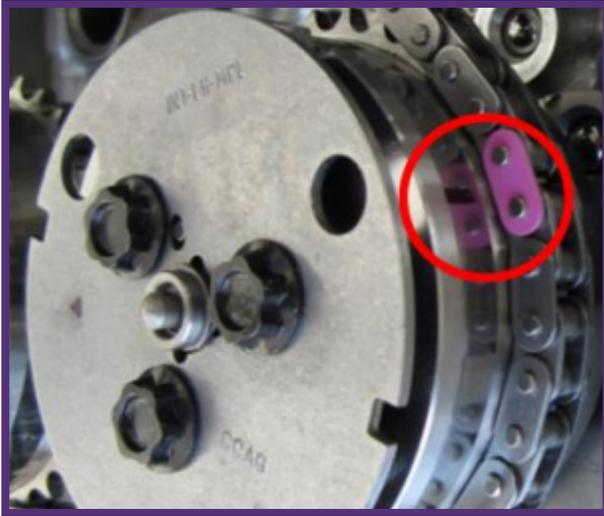


In this case, the Housing and Sensor Plate are moving free of each other.



The Alignment Marks on the “free moving” Sensor Plate DO NOT need alignment since the plate is not locked to the housing at this time.

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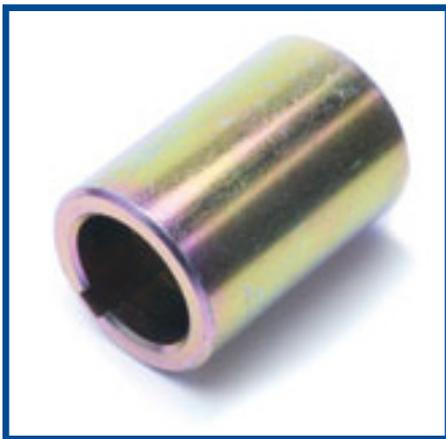


**The Timing Marks located on the Housing
MUST be aligned with the colored chain
markings and Crank Sprocket Timing
Marks as shown.**

END OF EXAMPLE

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Required Tools:



18252AA000
CRANKSHAFT SOCKET



J-53038
CASE COVER TOOL KIT



J-51972
CAM COVER ALIGNMENT PINS

IMPORTANT NOTES:

- Refer to the applicable Service Manual and review: General Description > Repair Contents > Action required before & after Battery Disconnect. Additionally, record any stored seat position(s) before proceeding. Relearn any seat position memory after work is complete. If the power rear gate (PRG) height has been customized, that position must also be noted and relearned.
- Whenever reconnecting the ground cable terminal to the battery sensor, torque to 7.5Nm (5.5ft.-lbs. or 66inch-lbs.) while supporting the sensor with the other hand as outlined in the applicable Service Manual under: STARTING/CHARGING SYSTSEMS > Battery Sensor.

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WARRANTY / CLAIM INFORMATION:

There have been no changes to the labor time for this procedure. Refer to the applicable Labor Time Guide for claim information.

IMPORTANT REMINDERS:

- SOA strongly discourages the printing and/or local storage of service information as previously released information and electronic publications may be updated at any time.
- Always check for any open recalls or campaigns anytime a vehicle is in for servicing.
- Always refer to STIS for the latest service information before performing any repairs.